

AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parentheses.

LISTING OF CLAIMS

1. (Currently Amended) A method for simulation of a technical system, ~~in which a function depends on parameters and on setting constants,~~ comprising:

determining a result₁ in the form of an influence of [[the]] parameters on the technical system, as a function of a set of parameters and on the basis of a request to an external source;

temporarily storing the result; and

simulating the technical system on the basis of the result and of [[the]] setting constants; wherein

the parameters are optimized for a required function, the required function depending on the parameters for configuration or reaction of the technical system and setting constants that are static during optimization.

2. (Previously Presented) The method as claimed in claim 1, further comprising:

designing the technical system on the basis of the simulation.

3. (Previously Presented) The method as claimed in claim 2, wherein the design process includes at least one of an adaptation of, a change to, and a redesign of the technical system.

4. (Previously Presented) The method as claimed claim 1, further comprising:

redetermining the influence of the parameters on the technical system by accessing the temporarily stored result.

5. (Previously Presented) The method as claimed in claim 1, wherein the influence of each of a plurality of sets of parameters on the technical system is determined by checking the external source, and wherein the result of this check is temporarily stored.

6. (Previously Presented) The method as claimed in claim 5, wherein an additional influence is determined on the basis of the temporarily stored results.

7. (Previously Presented) The method as claimed in claim 6, wherein the additional influence is determined by at least one of interpolation and extrapolation.

8. (Currently Amended) The method as claimed in claim 6, wherein the additional influence is determined from the results using ~~[[an]]~~ a neural network.

9. (Previously Presented) The method as claimed in claim 1, wherein the external source is at least one of a simulator and an experiment.

10. (Previously Presented) The method as claimed in claim 1, wherein the simulation is carried out using a plurality of results, without the external source.

11. (Previously Presented) The method as claimed in claim 1, further comprising:

determining, from the simulation of the technical system, the sensitivity of sets of parameters to changes in the setting constants.

12. (Currently Amended) An arrangement for simulation of a technical system, comprising:

a processor unit wherein, a function depends on parameters and setting constants ~~constant~~, wherein the processor unit is adapted to determine a result in the form of an influence of the parameters on the technical system as a function of a set of parameters and on the basis of a request to an external source; and

a memory, adapted to temporarily store the result, wherein
the processor unit is adapted to simulate the technical system on
the basis of the result and of the setting constants; wherein
the parameters are optimized for a required function, the
required function depending on the parameters for configuration or reaction of
the technical system and setting constants that are static during optimization.

13. (Currently Amended) A computer program product, adapted to
cause a processor unit to simulate a technical system, wherein a function
depends on parameters and setting constants, comprising:

a first program segment, adapted to cause the processor unit to
determine a result, in the form of an influence of the parameters on the
technical system, as a function of a set of parameters and on the basis of a
request to an external source;

a second program segment, adapted to cause the processor unit to
cause the result to be temporarily stored; and

a third program segment, adapted to cause the processor unit to
simulate the technical system on the basis of the result and of the setting
constants; wherein

the parameters are optimized for a required function, the
required function depending on the parameters for configuration or reaction of
the technical system and setting constants that are static during optimization.

14. (Previously Presented) The method as claimed claim 2, further comprising:

redetermining the influence of the parameters on the technical system by accessing the temporarily stored result.

15. (Previously Presented) The method as claimed claim 3, further comprising:

redetermining the influence of the parameters on the technical system by accessing the temporarily stored result.

16. (Previously Presented) The method as claimed in claim 2, wherein the influence of each of a plurality of sets of parameters on the technical system is determined by checking the external source, and wherein the result of this check is temporarily stored.

17. (Previously Presented) The method as claimed in claim 16, wherein an additional influence is determined on the basis of the temporarily stored results.

18. (Previously Presented) The method as claimed in claim 17, wherein the additional influence is determined by at least one of interpolation and extrapolation.

19. (Currently Amended) The method as claimed in claim 17, wherein the additional influence is determined from the results using ~~[[an]]~~ a neural network.

20. (Previously Presented) The method as claimed in claim 2, wherein the external source is at least one of a simulator and an experiment.

21. (Previously Presented) The method as claimed in claim 2, wherein the simulation is carried out using a plurality of results, without the external source.

22. (Previously Presented) The method as claimed in claim 2, further comprising:

determining, from the simulation of the technical system, the sensitivity of sets of parameters to changes in the setting constants.

23. (Previously Presented) The arrangement of claim 12, wherein the processor unit is further adapted to design the technical system on the basis of the simulation.

24. (Previously Presented) The arrangement of claim 23, wherein the design process includes at least one of an adaptation of, a change to, and a

redesign of the technical system.

25. (Previously Presented) The arrangement of claim 12, wherein the processor unit is further adapted to redetermining the influence of the parameters on the technical system by accessing the temporarily stored result.

26. (Previously Presented) The arrangement of claim 12, wherein the influence of each of a plurality of sets of parameters on the technical system is determined by checking the external source, and wherein the result of this check is temporarily stored.

27. (Previously Presented) The arrangement of claim 26, wherein an additional influence is determined on the basis of the temporarily stored results.

28. (Previously Presented) The arrangement of claim 27, wherein the additional influence is determined by at least one of interpolation and extrapolation.

29. (Currently Amended) The arrangement of claim 27, wherein the additional influence is determined from the results using [[an]] a neural network.

30. (Previously Presented) The arrangement of claim 12, wherein the external source is at least one of a simulator and an experiment.

31. (Previously Presented) The arrangement of claim 12, wherein the simulation is carried out using a plurality of results, without the external source.

32. (Previously Presented) The arrangement of claim 12, wherein the processor unit is further adapted to determine, from the simulation of the technical system, the sensitivity of sets of parameters to changes in the setting constants.

33. (Previously Presented) The computer program product of claim 13, including a computer readable medium.

34. (Previously Presented) The computer program product of claim 13, further comprising a fourth program segment, adapted to cause the processor unit to design the technical system on the basis of the simulation.

35. (Previously Presented) The computer program product of claim 13, wherein the design process includes at least one of an adaptation of, a change to, and a redesign of the technical system.

36. (Previously Presented) The computer program product of claim 13, further comprising a fourth program segment, adapted to cause the processor unit to redetermine the influence of the parameters on the technical system by accessing the temporarily stored result.

37. (Previously Presented) The computer program product of claim 13, wherein the influence of each of a plurality of sets of parameters on the technical system is determined by checking the external source, and wherein the result of this check is temporarily stored.

38. (Previously Presented) The computer program product of claim 37, wherein an additional influence is determined on the basis of the temporarily stored results.

39. (Previously Presented) The computer program product of claim 38, wherein the additional influence is determined by at least one of interpolation and extrapolation.

40. (Currently Amended) The computer program product of claim 38, wherein the additional influence is determined from the results using [[an]] a neural network.

41. (Previously Presented) The computer program product of claim 13, wherein the external source is at least one of a simulator and an experiment.

42. (Previously Presented) The computer program product of claim 13, wherein the simulation is carried out using a plurality of results, without the external source.

43. (Previously Presented) The computer program product of claim 13, further comprising a fourth program segment, adapted to cause the processor unit to determine the influence of the parameters on the technical system by accessing the temporarily stored result determining, from the simulation of the technical system, the sensitivity of sets of parameters to changes in the setting constants.